

METHODS AND SYSTEMS FOR ENHANCED DELIVERY OF ELECTRICAL CURRENTS TO  
FLUIDIC SYSTEMS

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**ABSTRACT OF THE DISCLOSURE**

Microfluidic devices, systems and methods that are operated and/or configured to enhance the passage of electrical current from power supplies to the fluids within the system. The devices, methods and systems utilize alternate electrode and system configurations to permit transfer of current at lower voltages, minimize water hydrolysis at the electrode/fluid interface and/or permit accurate *in situ* measurement of the parameters of processes carried out in those devices and systems.